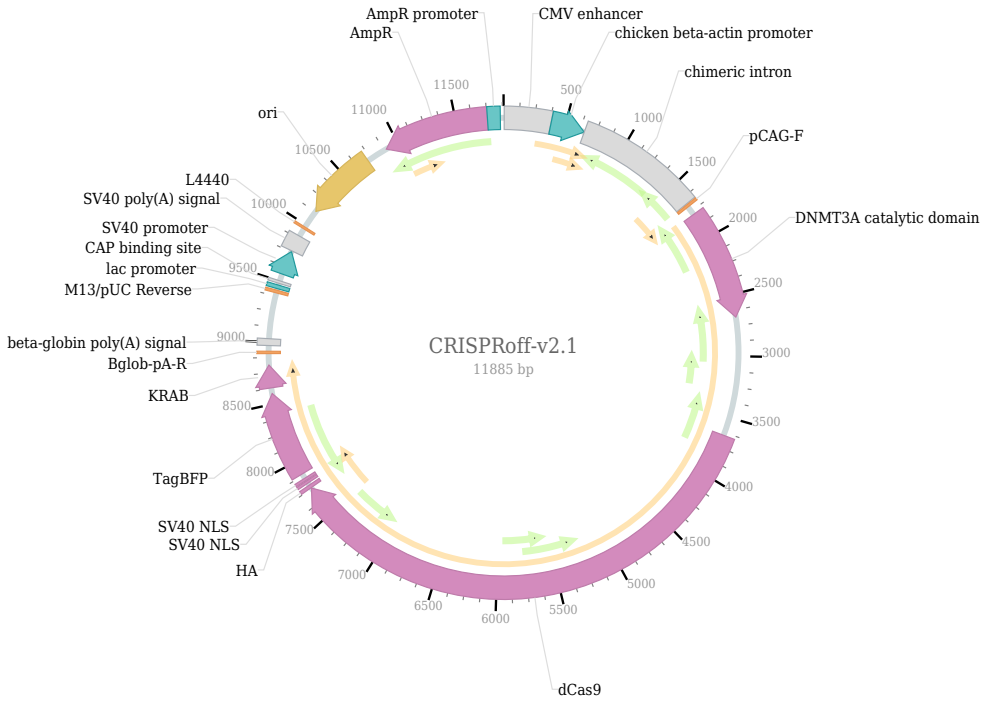
CRISPRoff-v2.1

载体编号 Vector ID	V007493
抗性 Antibiotic Resistance	Ampicillin
长度 Length	11885 bp
载体类型 Vector Type	Mammalian Expression

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High Copy
启动子 Promoter	CAG
克隆方法 Cloning Method	Gibson Cloning
5' 引物 5' Primer	ggcaaagaattctgcagtcg
3' 引物 3' Primer	ccaccaccttctgataggc
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	CRISPRoff-v2.1 is an engineered plasmid vector for epigenetic silencing without DNA cleavage. It uses a dCas9 fusion protein (dCas9-DNMT3A/DNMT3L) to deposit DNA methylation marks, enabling stable, heritable gene repression across cell divisions. Version 2.1 features optimized efficiency and reversibility via CRISPRon. Ideal for long-term gene function studies and therapeutic development (e.g., Alzheimer's disease by targeting Tau protein)

质粒图谱



复溶方法

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.